AMENDMENTS TO THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Currently Amended) A wireless communication system, comprising:

transmitter for transmitting a signal;

plurality of antennas for use by one receiver;

a scanner adapted to scan through the plurality of antennas and in turn provide a signal received from each of the plurality of antennas to the receiver and to impart a phase onto a received signal;

a receiver having direction finding mean; for determining the bearing of a received signal in accordance with the phase thereof;

wherein said receiver is configured to eliminate multipath channel impairments.

2. (Original) A wireless communication system according to claim 1; wherein a scan rate of the scanner for scanning each of the 15 plurality of antennas is at least 100 hertz.

3. (Original) A wireless communication system according to claim 1; wherein a scan rate of the scanner for the plurality of antennas is at least 2000 hertz.

4. (Original) A wireless communication system according to claim 1; wherein the plurality of antennas are equidistant from a center point.

5. (Original) A wireless communication system according to claim 4; wherein the plurality of antennas are spaced equally apart around a circumference of a circle formed about said center point.

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6. (Original) A wireless communication system according to claim 1; wherein the plurality of antennas comprises at least three antennae.

7. (Original) A wireless communication system according to claim 1; wherein the scanner continuously scans and connects each of the plurality of antennae in turn to the receiver for a substantially equal period of time.

8. (Currently Amended) A method for communication in a wireless communication environment, comprising:

providing a common transceiver with a plurality of antennas;

continuously scanning through the said plurality of antennas for a substantially fixed period of time by connecting each of the plurality of antennas in turn to a receiver configured to eliminate multipath channel impairments in the substantially stationary wireless communication environment to impart a phase onto a received signal;

determining the bearing of the received signal in accordance with the phase thereof;

operating the plurality of antennas as a phased array during a transmit mode.

9. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment comprises a substantially stationary wireless communication environment.

10. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment comprises a wireless local area network.

11. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a cordless telephone.

12. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the 10 wireless communication environment is a cordless modem.

13. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a wireless local loop.

14. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a cellular telephone.

15. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a PCS telephone.

16. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a trunked mobile radio system.

17. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a mobile satellite communications system.

18. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the step of continuously scanning

connects each of the plurality of antennas to the receiver at least 100 times per second.

19. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the step of continuously scanning connects each of the plurality 10 of antennas to the receiver at least 2000 times per second.

20. (Original) A method for communication in a wireless communication environment according to claim 8; further comprising the step of locating each of the plurality of antennas substantially equidistant from a center point.

21. (Original) A method for communication in a wireless communication environment according to claim 20; wherein the plurality of antennas are spaced equally apart around a circumference of a circle formed about the center point.